

10-21-03

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

To Commissioner For Patents

Enclosed herewith is a Form PTO-1449, any required copies of documents listed thereon, and any concise explanation of their relevance is indicated below per 37 CFR 1.97.

Application Number	09/899,091
Filing Date	JULY 5, 2001
First Named Inventor	INMINK SCHOUHAMER
Group Art Unit	2819
Examiner Name	PEGUY JEAN PEIRRE
Attorney Docket Number	PHN 14-746R

Please charge any required fee under §1.17(i) or §1.17(p) or any other required fee (except the issue fee) to Account No. 14-1270.

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2. I certify that none of these documents were cited in any communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, none of these documents was known to any individual designated in §1.56(c) more than three (3) months ago.

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A concise explanation of the relevance of each non-English document, as understood by the individual designated in §1.56(c) most knowledgeable about the contents, is enclosed per §1.98(a)(3).

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cited in the specification or considered in drafting the specification of this application;

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cited as an "X" or "Y" document in a foreign Patent Office search report in a foreign counterpart application, a copy of which report is also enclosed.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print Type)	MICHAEL E. BELK	Registration No. (Attorney/Agent)	33,357
Signature	<i>Michael Belk</i>	Date	10/9/03

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Signature	<i>Noemi Chapa</i>	Date	OCT 10, 2003

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Sheet 1 of 4

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Atty. Docket No.

PHN 14-746R

Serial No.

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09/899,091/7

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Applicant

INNMINK SCHOUHAMER ET AL.

Filing Date

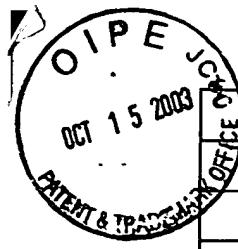
7JULY 5, 2001

Group

2819

U.S. PATENT DOCUMENTS

Ex. Int		Document Number								Date	Name	Class	Sub- class	Filing Date If Approp.
	AA	4	4	9	9	4	5	4	2/1985	SHIMADA	340	347		
	AB	4	5	3	9	6	9	1	9/1985	OGAWA	375	37		
	AC	4	8	1	1	3	6	1	3/1989	BACOU ET AL	371	37		
	AD	5	1	9	8	8	1	3	3/1993	ISOZAKI	341	59		
	AE	2	9	5	7	9	4	7	10/25/60	BOWERS	179	15.6		
	AF	3	8	5	5	4	2	6	12/17/74	BOUWHUIS	179	100.3V		
	AG	4	0	2	0	2	8	2	4/26/77	HALPERN	178	68		
	AH	4	1	4	6	9	0	9	3/27/79	BECKENHAUER ET AL.	360	39		
	AI	4	2	6	1	0	1	9	4/7/81	MCCLELLAND	360	40		
	AJ	4	3	2	3	9	3	1	4/6/82	JACOBY	360	40		
	AK	4	3	8	7	3	6	4	6/7/83	SHIROTA	340	347 DD		
	AL	4	4	1	0	8	7	7	10/18/83	CARASSO ET AL.	340	347 DD		
	AM	4	4	1	3	2	5	1	11/1/83	ADLER ET AL.	340	347 DD		
	AN	4	4	1	4	6	5	9	11/8/83	BECKERS	369	59		
	AO	4	4	3	7	0	8	6	3/13/84	MILLER ET AL.	340	347 DD		
	AP	4	4	5	6	9	0	5	6/26/84	ODAKA	340	347 DD		
	AQ	4	4	6	3	3	4	4	7/31/84	ADLER ET AL.	340	347 DD		
	AR	4	5	0	1	0	0	0	2/19/85	IMMINK ET AL.	375	25		
	AS	4	5	1	7	5	5	2	5/14/85	SHIROTA ET AL.	340	347 DD		
	AT	4	5	2	0	3	4	6	5/28/85	SHIMADA	340	347 DD		
	AU	4	5	3	6	7	4	2	8/20/85	SCHOUHAMER IMMINK	340	347 DD		
	AV	4	5	7	3	0	3	4	2/25/86	SCHOUHAMER IMMINK	340	347 DD		
	AW	4	6	1	7	5	2	6	10/14/86	HIKAWA ET AL.	331	1 A		
	AX	4	6	2	0	3	1	1	10/28/86	SCHOUHAMER IMMINK	375	19		
	AY	4	6	4	1	1	2	8	2/3/87	SCHOUHAMER IMMINK	340	347 DD		
	AZ	4	6	7	5	6	5	0	6/23/87	COPPERSMITH ET AL.	340	347 DD		
	BA	4	6	8	3	5	7	2	7/28/87	BAGGEN ET AL.	371	37		



	BB	4	6	9	7	1	6	7	9/29/87	O'KEEFFE ET AL.	340	347 DD	
	BC	4	7	2	8	9	2	9	3/1/88	TANAKA	340	347 DD	
	BD	4	7	7	9	0	7	2	10/18/88	VAN GESTEL	341	59	
	BE	4	8	3	3	4	7	0	5/23/89	IKETANI	341	59	
	BF	4	8	5	1	8	3	7	7/25/89	BALDWIN	341	55	
	BG	4	8	5	5	7	4	2	8/8/89	VERBOOM	341	102	
	BH	4	9	8	8	9	9	9	1/29/91	UEHARA ET AL.	341	59	RECEIVED CUST. 17 APR 1993 PTO
	BI	5	0	1	6	2	5	8	5/14/91	TANAKA ET AL.	375	25	
	BJ	5	0	4	8	0	0	3	9/10/91	BAGGEN ET AL.	369	59	
	BK	5	1	3	6	4	3	6	8/4/92	KAHLMAN	360	40	
	BL	5	1	9	6	8	4	8	3/23/93	SAKAZAKI	341	58	
	BM	5	2	0	6	6	4	6	4/27/93	SAKO ET AL.	341	95	
	BN	5	2	2	9	9	8	6	7/20/93	MIZOKAMI ET AL.	369	59	
	BO	5	2	4	1	3	0	9	8/31/93	CIDECIYAN ET AL.	341	59	
	BP	5	3	3	3	1	2	6	7/26/94	FUKUDA ET AL.	369	59	
	BQ	5	3	4	1	1	3	4	8/23/94	BENJAUTHRIT	341	58	
	BR	5	3	6	5	2	3	1	11/15/94	NIIMURA	341	58	
	BS	5	3	7	5	2	4	9	12/20/94	CHO	395	800	
	BT	5	4	5	1	9	4	3	9/19/95	SATOMURA	341	58	
	BU	5	6	2	7	5	9	2	5/6/97	TICHELAAR ET AL.	348	429	
	BV	5	6	4	2	1	1	3	6/24/97	SCHOUHAMER IMMINK	341	58	
	BW	5	6	9	2	0	2	1	11/25/97	WALKER	375	354	
	BX	5	9	2	0	2	7	2	7/6/99	SCHOUHAMER IMMINK	341	59	
	BY	5	6	9	6	5	0	5	12/9/97	SCHOUHAMER IMMINK	341	59	

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		Document Number	Date		Country	Class	Sub-class	Trans.							
								Yes	No						
BZ	0	3	4	7	9	3	4	A	2	12/1989	EUROPE	G11B	20/14		
CA	0	4	9	3	0	4	4	A	2	12/1991	EUROPE	H03M	7/14		
CB	2	2	6	7	4	1	6			1/1993	UNITED KINGDOM	H03M	7/00		
CC	3	6	0	5	3	9	6	A	1	27/8/87	GERMANY	H03M	7/14		
CD	0	0	5	9	2	2	4	A	1	8/9/82	EUROPE	G11B	5/09		
CE	0	1	4	3	0	0	5	A	2	29/5/85	EUROPE	H03M	5/14		
CF	0	1	9	3	1	5	3	A	2	3/9/86	EUROPE	G11B	20/14		
CG	0	3	1	0	0	4	1	A	2	5/4/89	EUROPE	H03M	5/14		
CH	0	5	0	6	4	4	6	A	1	30/9/92	EUROPE	H03M	5/14		
CI	2	0	9	4	1	0	7	A		8/9/82	UNITED KINGDOM	H04L	3/02		



CJ	2	1	1	1	8	0	5	A	6/7/83	UNITED KINGDOM	H04L	25/49		
CK	2	1	4	1	9	0	6	A	3/1/85	UNITED KINGDOM	H03K	13/24		
CL	0	2	1	1	4	7	2	4	26/4/90	JAPAN	H03M	7/14		
CM	0	4	1	6	7	6	2	4	15/6/92	JAPAN	H03M	5/06		
CO	0	6	2	1	8	8	0	7	3/17/87	JAPAN	GLIB	20/14		
CP	6	2	2	8	3	7	1	9	9/12/87	JAPAN	H03M	7/14		
CQ	6	3	0	1	8	8	2	2	26/1/88	JAPAN	H03M	7/14		
CR	6	3	1	7	3	2	7	4	16/7/88	JAPAN	GLIB	20/12		

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CS	"A New Look-Ahead Code for Increasing Data Density," by Jacoby, G.V., IEEE Trans. Magn., vol. MAG-13, no. 5, pp. 1202-4, Sept. 1977.
CT	"A Rate 2/3, (1,6) RLL Code" by R.L. Adler, R.K. Brayton, M. Hassner, and B.P. Kitchens, IBM Techn. Discl. Bul., vol. 27, pp. 4727-4729, 1985.
CU	"A Rotary-head High-Density Digital Audio Tape Recorder" by H. Nakajima and K. Odaka, IEEE Trans. Consum. Electron., vol. CE-29, pp. 430-437, Aug. 1983.
CV	"A Survey of Coding Schemes for Transmission or Recording of Digital Data" by H. Kobayashi, IEEE Trans. Commun., vol. COM-19, pp. 1087-1099, Dec. 1971.
CW	"Algorithms for Sliding Block Codes. An Application of Symbolic Dynamics to Information Theory", by R.L. Adler, D. Coppersmith, and M. Hassner, IEEE Trans. Inform. Theory, vol. IT-29, no. 1, pp. 5-22, Jan. 1983.
CX	"Alternative Modulation Codes for the Compact Disc" by C. French and J. Wolf, IEEE Trans. on Consum. Electron., Nov. 1988, Vol. 34, No. 4, pp. 908-913.
CY	"An Analysis Of DC Free Property On Run-Length Limited Code" by S. Tazaki, T. Kaji & H. Osawa 1986 Dummy Tijdschrift 1986 Vol. 67 pp. 151-156:
CZ	"An Analysis Of DC Free Property On Run-Length Limited Code" Video audio and data recording sixth international conference Publ. No. 67 PP.151-156 Publ. London UK 1986 214 PP. B04.
DA	"Binary Code Suitable for Line Transmission" by J.M. Griffiths, Electronics Letters, vol. 5, pp. 79-81, 1969.
DB	"Binary Two-thirds Rate Code with Full Word Look-Ahead" by G.V. Jacoby and R. Kost, IEEE Trans. Magn., vol. MAG-20, no. 5, pp. 709-714, Sept. 1984.
DC	"Channel Codes for Digital Video Recording" by J.L.E. Baldwin, Institution of Electronic Radio and Engineers, Fifth International Conference on Video and Data Recording, University of Southampton, England, April 1984, Proceedings No. 59, pp. 67-77.
DD	"Coding Diagrams In Hard Disks" by Badell, C.M., Mundo Electron. (Spain), no.184, pp. 63-4,67,68. May 1988.
DE	"Coding for Constrained Channels: A Comparison of Two Approaches" by P.A. Franaszek, IBM J. Res. Develop., vol. 33, no. 6, 602-608, Nov. 1989.
DF	"Coding Techniques for Digital Recorders" by K.A. Schouhamer Immink, 1991, ISBN 0-13-140047-9.
DG	"Constructions of Almost Block-Decable Runlength-Limited Codes" by K.A.S. Immink, IEEE Trans. Inform. Theory, vol. 41, no. 1, pp. 284-287, Jan. 1995.
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DI	"Low-disparity Binary Coding System" by R.O. Carter, Electronics Letters, vol. 1, pp. 65-68, May 1965.
DJ	"Low-Frequency Suppression In RLL Codes For Optical Recording" by M. Mattavelli, Eight International Conference on Video, Audio and Data Recording. (Conf. Publ. No. 319), IEE, vii+182 PP.,PP.109 15 1990.
DK	"Mark Generation In 2,7 Code", by H.J. Gardner and W.A. Overby. IBM Technical Disclosure Bulletin Dec 1984 Vol. 27 No. 7B pp. 4274-4277.
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DM	"Modulation Systems For Digital Audio Discs With Optical Readout", by KA Immink. ICASSP 81 proceedings of the 1981 IEEE Int. Conf. on Acoustics Speech and Signal Processing PP 587-589.
DN	"Optimal Codes for Digital Magnetic Recording" by J.C. Mallinson and J.W. Miller, Radio and Elec. Eng., vol. 47, pp. 172-176, 1977.



DO	"Optimization Of Low-Frequency Properties Of Eight-To-Fourteen Modulation" by K.A. Schouhamer Immink, U. Gross. Radio & Electron. Eng. (GB), vol.53, no.2, PP.63-6, Feb. 1983.
DP	"Prefix-Synchronized Run-Length-Limited Sequences" by K.A.S. Immink, H. Hollmann, IEEE on Selected Areas in Communications, VOL.10, NO. 1, Jan. 1992, p.214-222.
DQ	"Principles of Digital Line Coding" by K. Cattermole, Int. J. Electron., vol. 55, pp. 3-33, July 1983.
DR	"Recording Codes for Digital Magnetic Storage" by P.H. Siegel, IEEE Trans. Magn., vol. MAG-21, no. 5, pp. 1344-1349, Sept. 1985.
DS	"Run-Length Reduction of 3PM Code via Look-Ahead Technique" by M. Cohn and G.V. Jacoby, IEEE Trans. Magn., vol. MAG-18, pp. 1253-1255, Nov. 1982.
DT	"Sliding-Block Coding for Input-Restricted Channels" by R. Karabed and B.H. Marcus, IEEE Trans. Inform. Theory, vol. IT-34, no. 1, pp. 2-26, Jan. 1988.
DU	"The EFM Recording Code" by Dusek, K., Sdelovaci Tech. (Czechoslovakia), vol. 32, no.5, PP.177-8, May 1984.
DV	"Waveform Compression in NRZI Magnetic Recording" by M. Berkoff, Proceedings. IEEE, vol. 52, pp. 1271-1272, Oct. 1964.
DW	"Zero-Modulation Encoding in Magnetic Recording" by A.M. Patel, IBM J. Res. Develop., vol. 19, pp. 366-378, July 1975.
DX	"Other Invention Disclosure Statement" May 8, 2003
Examiner	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP
 Draw line through citation if not in conformance and not considered. Include a copy
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U.C.C.	DO	"Optimization Of Low-Frequency Properties Of Eight-To-Fourteen Modulation" by K.A. Schouhamer Immink, U. Gross. Radio & Electron. Eng. (GB), vol.53, no.2, PP.63-6, Feb. 1983.
SEARCHED	DP	"Prefix-Synchronized Run-Length-Limited Sequences" by K.A.S. Immink, H. Hollmann, IEEE on Selected Areas in Communications, VOL.10, NO. 1, Jan. 1992, p.214-222.
INDEXED	DQ	"Principles of Digital Line Coding" by K. Cattermole, Int. J. Electron., vol. 55, pp. 3-33, July 1983.
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SEARCHED	DV	"Waveform Compression in NRZI Magnetic Recording" by M. Berkoff, Proceedings. IEEE, vol. 52, pp. 1271-1272, Oct. 1964.
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